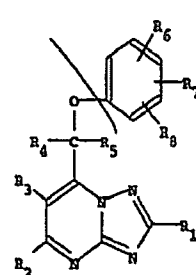
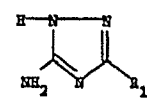
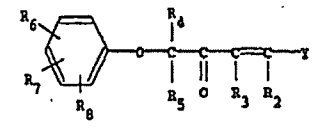
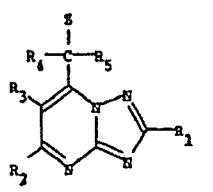
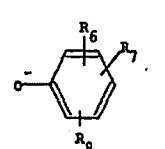


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| <p>95-161726/21 B02 BOOT 93.10.13 BOOTS CO PLC *WO 9510521-A1 93.10.13 93GB-021162 (95.04.20) C07D 487/04, A61K 31/505 (C07D 239:00, 249:00, 487/04) New and use of 1,2,4-triazolo[1,5-a]pyrimidine cpds. - for treatment and/or prevention of seizures, epilepsy and neurological damage e.g. stroke, brain trauma, head injury or haemorrhage (Eng) C95-074901 N(AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KO KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US VZ VN) R(AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ) Addnl. Data: HEAL D J, FERNANDEZ FERNANDEZ M I, SARGENT B 94.10.12 94WO-EP03364</p> | <p>B(6-D9, 14-J7, 14-N16) 3</p>  <p>(II)</p> <p>R₄, R₅ = H, 1-6C alkyl, opt. substd. by one or more of halo, CN, OH, NH₂ or 1-6C alkyl, or</p> <p> WO 9510521-A+</p> |
| <p>1,2,4-triazolo[1,5-a]pyrimidine cpds. of formula (II) and their salts are new;</p> <p>R₁ = H or 1-6C alkyl, 1-6C alkoxy or 1-6C alkanoyl opt. substd. by one or more of halo, CN, OH or NH₂; R₂, R₃ = H or 1-6C alkyl, 1-6C alkoxy, 1-6C alkanoyl, 1-6C alkylthio, 1-6C alkylsulphinyl or 1-6C alkylsulphonyl opt. substd. by one or more of halo, CN, OH or NH₂;</p> | |

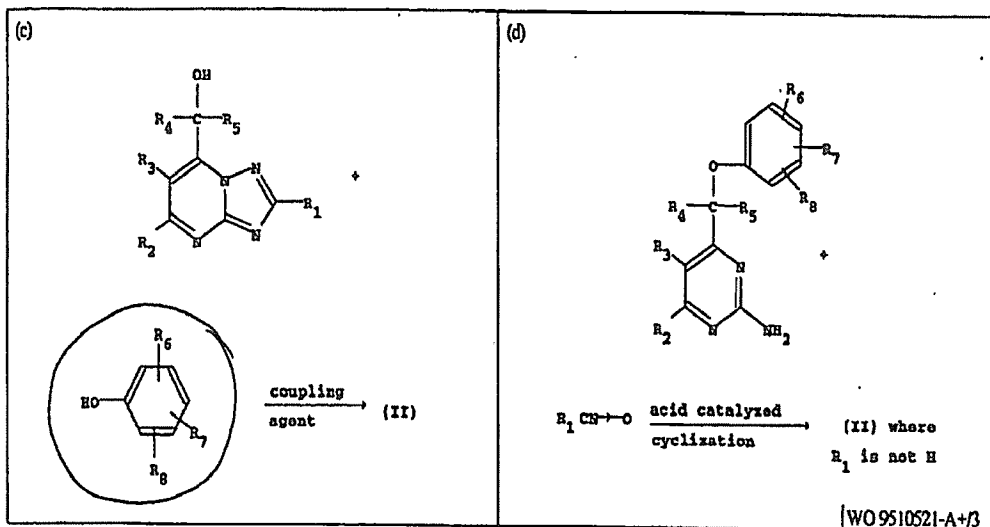
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| <p>CR₄R₅ = 3-6C cycloalkylidene opt. substd. by one or more of halo, CN, OH, NH₂ or 1-6C alkyl; R₆, R₇, R₈ = H, halo, OH, SH, CN or 1-6C alkyl, 1-6C alkanoyl, 1-6C alkoxy, 2-6C alkoxy carbonyl, carboxy, 1-6C alkanoyloxy, 1-6C alkylthio, 1-6C alkylsulphinyl, 1-6C alkylsulphonyl, 1-6C alkylsulphonylamino, sulphonyl, carbamoyl, 2-6C alkylcarbamoyl or 1-6C alkanoylamino opt. substd. by one or more of halo, CN, OH or amino and any N atom is opt. substd. by one or more 1-6C alkyl; with the proviso that if R₁, R₂, R₃, R₄ and R₅ = H; R₆ = Me and either R₆, R₇ = H or R₆ = 4-chloro and R₇ is H or 2-chloro then cpd. (II) is not a racemate.</p> <p>Also claimed is the use of cpds. (I), which are cpds. (II) excluding the proviso, as pharmaceuticals.</p> <p><u>USE</u> Cpds. (I) and (II) can be used for the treatment, prophylaxis and/or inhibition of seizures, neurological disorders such as epilepsy and/or conditions in which there is neurological damage, e.g. stroke, brain tumour, head injuries and haemorrhage. Cpds. (I) and (II) potentiate GABA-A transmission and/or activate neuronal K⁺ channels.</p> | <p>Admin. may be oral, rectal, parenteral or topical. Typical unit dosage is 1-1,000 mg. pref. 5-500 mg.</p> <p><u>SPECIFIC COMPOUNDS</u> 21 cpds. (I) are claimed e.g.: 7-[1-(4-fluorophenoxy)ethyl]-1,2,4-triazolo[1,5-a]pyrimidine (IIa); 7-[1-(4-methylsulphonylphenoxy)ethoxy]-1,2,4-triazolo[1,5-a]pyrimidine; 7-[1-(2-chloro-4-fluorophenoxy)ethyl]-1,2,4-triazolo[1,5-a]pyrimidine.</p> <p><u>PREPARATION</u> Cpds. (II) are prepd. as follows (claimed): (a)</p>  <p> WO 9510521-A+/I</p> |
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| <p>95-161726/21</p>  <p>Y = a leaving gp.</p> <p>(b)</p>  |  <p>Z = a leaving gp.</p> <p> WO 9510521-A+/2</p> |
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(con't)



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EXAMPLE

1.12g of 4-fluorophenol was added to a stirred suspension of 0.48 g of NaH in 35 ml of dry 1,2-dimethoxyethane. The mixt. was stirred at room temp. for 30 mins., then a soln. of 2.27 g of 7-(1-bromoethyl)-1,2,4-triazolo[1,5-a]pyrimidine in 85 ml of dry 1,2-dimethoxyethane was added dropwise. The mixt. was stirred at room temp. for 24 hrs.. The NaBr was removed by filtration.

The solvent was evapd. and the residue dissolved in CH₂Cl₂ and washed with 200 ml of a 5% aq. soln. of NaOH, followed by water. The organic layer was dried (MgSO₄) and worked up to give 1.03 g of (IIa) m.pt. 106-108 °C. (AC)
(81pp2268DwqNa.0/0)
SR:W08901478

WO 9510521-A/4

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